

Product: Ultrafast Recovery Rectifiers

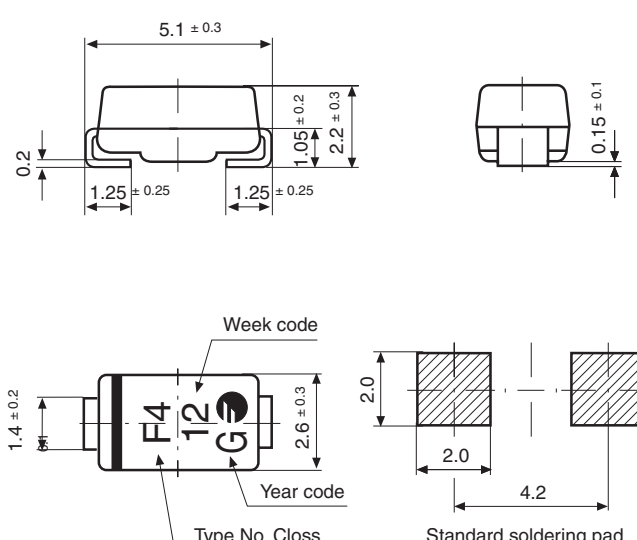

FAGOR ELECTRONICA's Ultrafast Recovery Rectifiers offer reverse recovery times down to 30ns using broad range of forward current possibilities and packages.

Ideal for high frequency applications like SMPS, Monitors, Electronic Ballast, Inverters....

Manufactured using HYPERRECTIFIER© technology, we offer these devices housed either in leaded packages or SMD.

Product	Family	$I_{F(AV)}$ (A)	I_{FSM} (A)	V_{RRM} (V)	V_F (V)	T_{RR} (ns)	OUTLINE
FES1D	FES1	1.0	30	200	0.95	50	DO214AC/SMA

1 Amp. Surface Mounted Glass Passivated Ultrafast Recovery Rectifier

<p>Dimensions in mm.</p> 	<p>CASE: SMA/DO-214AC</p>	<p>Voltage 50 to 1000 V</p>	<p>Current 1.0 A</p>
			
<ul style="list-style-type: none"> Glass passivated junction High current capability The plastic material carries U/L 94 V-0 Low profile package Easy pick and place High temperature soldering 260 °C 10 sec 			
<p>MECHANICAL DATA Terminals: Solder plated, solderable per IEC 68-2-20. Standard Packaging: 4 mm. tape (EIA-RS-481). Weight: 0.064 g.</p>			

Maximum Ratings and Electrical Characteristics at 25 °C

		FES1A	FES1B	FES1D	FES1F	FES1G	FES1J	FES1M
Marking Code		U1	U2	U3	U4	U5	U6	U8
V_{RRM}	Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	600	1000
V_{RMS}	Maximum RMS Voltage	35	70	140	210	280	420	700
V_{DC}	Maximum DC Blocking Voltage	50	100	200	300	400	600	1000
$I_{F(AV)}$	Forward current at $T_L = 110\text{ °C}$	1.0 A						
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	30 A						
V_F	Maximum Instantaneous Forward Voltage at 1.0A	0.95 V			1.25 V		1.5 V	
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_a = 25\text{ °C}$			5 μ A			
		$T_a = 100\text{ °C}$			100 μ A			
T_{rr}	Maximum Reverse Recovery Time (0.5/1/0.25A)	50 ns					120 ns	
C_j	Typical Junction Capacitance (1MHz; -4V)	8 pF						
$R_{th(j-l)}$ $R_{th(j-a)}$	Typical Thermal Resistance (5x5 mm ² x 130 μ Copper Area)	27 °C/W			75 °C/W			
$T_j - T_{stg}$	Operating Junction and Storage Temperature Range	-55 to + 150 °C						
E_{RSM}	Maximum non repetitive peak reverse avalanche Energy $T_j = 25\text{ °C}$, $I_{(BR)R} = 1A$	20 mJ					10 mJ	